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1   Distributed Information Retrieval: Exploiting a controlled vocabulary to improve collection selection and retrieval effectiveness
James C. French, Allison L. Powell, Fredric Gey, Natalia Perelman
October 2001 **Proceedings of the tenth international conference on Information and knowledge management**
Publisher: ACM Press
Full text available: 📄 pdf(1.47 MB)   Additional Information: full citation; abstract, references, index terms

> Vocabulary incompatibilities arise when the terms used to index a document collection are largely unknown, or at least not well-known to the users who eventually search the collection. No matter how comprehensive or well-structured the indexing vocabulary, it is of little use if it is not used effectively in query formulation. This paper demonstrates that techniques for mapping user queries into the controlled indexing vocabulary have the potential to radically improve document retrieval perform ...

2   Lexicons, corpora, and evaluation: Multilingual speech databases at LDC
John J. Godfrey
March 1994 **Proceedings of the workshop on Human Language Technology HLT '94**
Publisher: Association for Computational Linguistics
Full text available: 📄 pdf(378.89 KB)   Additional Information: full citation, abstract, references

> As multilingual products and technology grow in importance, the Linguistic Data Consortium (LDC) intends to provide the resources needed for research and development activities, especially in telephone-based, small-vocabulary recognition applications; language identification research; and large vocabulary continuous speech recognition research.The POLYPHONE corpora, a multilingual "database of databases," are specifically designed to meet the needs of telephone application development and testin ...

3   Expert/consultation system for a retrieval data-base with semantic network of concepts
Peretz Shoval
May 1981 **ACM SIGIR Forum , Proceedings of the 4th annual international ACM SIGIR conference on Information storage and retrieval: theoretical issues in information retrieval SIGIR '81**, Volume 16 Issue 1
Publisher: ACM Press
Full text available: 📄 pdf(342.56 KB)   Additional Information: full citation, abstract, references, citings

This paper describes a development and implementation of an expert/consultation system for a retrieval data-base, that interfaces between the user and a retrieval system. The system's objective is to perform the information consultant's job in assisting a user to select the right vocabulary terms for his query. It is particularly useful for a novice user of a controlled-vocabulary, index-based retrieval system, who is not familiar with the vocabulary and the system Thesaurus. The user will enter ...

4 Metadata for integrating speech documents in a text retrieval system

Ulrike Glavitsch, Peter Schäuble, Martin Wechsler
December 1994 **ACM SIGMOD Record**, Volume 23 Issue 4
Publisher: ACM Press
Full text available: pdf(603.39 KB)   Additional Information: full citation, abstract, citings, index terms

We present an information retrieval system that simultaneously allows to search for text and speech documents. The retrieval system accepts vague queries and performs a best-match search to find those documents that are relevant to the query. The output of the retrieval system is a list of ranked documents where the documents on the top of the list satisfy best the user's information need. The relevance of the documents is estimated by means of metadata (document description vectors). The metada ...

5 Speech recognition as a computer graphics input technique (Panel Session)

Richard Rabin, Alan R. Strass, Mark Robillard, Sue Schedler, Matthew Peterson
July 1982 **ACM SIGGRAPH Computer Graphics , Proceedings of the 9th annual conference on Computer graphics and interactive techniques SIGGRAPH '82**, Volume 16 Issue 3
Publisher: ACM Press
Full text available: pdf(132.25 KB)   Additional Information: full citation, abstract, index terms

Richard Rabin Interactive graphics systems typically require intense "hands busy/eyes busy and brains busy" activity on the part of the system user/operator. Voice input by means of automatic speech recognition equipment, offers major potential for improving user/operator productivity. It is the only input technique which does not require the direct use of hands and eyes. Voice input can replace or complement keyboards, function keys, tablets and other type ...

6 On the interrelationship of dictionary size and completeness

H. Hüther
December 1989 **Proceedings of the 13th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available: pdf(897.74 KB)   Additional Information: full citation, abstract, references, index terms

When dictionaries for specific applications or subject fields are derived from a text collection, the frequency distribution of the terms in the collection gives information about the expected completeness of the dictionary. If only a subset of the terms in the collection is to be included in the dictionary, the completeness of the dictionary can be optimized with respect to dictionary size. In this paper, formulas for the relationship between the frequency distribution of the te ...

7 Controlled natural language interfaces (extended abstract): the best of three worlds

Eva-Martin Mueckstein
March 1985 **Proceedings of the 1985 ACM thirteenth annual conference on Computer Science**
Publisher: ACM Press
Full text available: pdf(267.73 KB)   Additional Information: full citation, abstract, citings, index terms

This paper will discuss the problem of designing user-friendly interfaces for computer

applications. In particular, we will describe an interface that is based on mapping formal into natural languages in a controlled and structured way. The basic approaches for designing interfaces range from formal or natural language to menu driven ones. Formal language interfaces such as query or programming languages are typically powerful in terms of their manipulative capabilities, safe in ...

8   Lexicons, corpora, and evaluation: The hub and spoke paradigm for CSR evaluation
Francis Kubala, Jerome Bellegarda, Jordan Cohen, David Pallett, Doug Paul, Mike Phillips, Raja Rajasekaran, Fred Richardson, Michael Riley, Roni Rosenfeld, Bob Roth, Mitch Weintraub
March 1994 **Proceedings of the workshop on Human Language Technology HLT '94**
Publisher: Association for Computational Linguistics
Full text available: pdf(609.61 KB)   Additional Information: full citation, abstract, references

In this paper, we introduce the new paradigm used in the most recent ARPA-sponsored Continuous Speech Recognition (CSR) evaluation and then discuss the important features of the test design.The 1993 CSR evaluation was organized in a novel fashion in an attempt to accomodate research over a broad variety of important problems in CSR while maintaining a clear program-wide research focus. Furthermore, each test component in the evaluation was designed as an experiment to extract as much information ...

9   The role of the computer in ethnographic analysis (abstract only)
Paul Beynon Davies
May 1981 **ACM SIGSOC Bulletin , Proceedings of the joint conference on Easier and more productive use of computer systems. (Part - I): Information processing in the social sciences and humanities - Volume 1981**, Volume 12-13 Issue 4-1
Publisher: ACM Press
Additional Information: full citation, abstract, index terms

Art and architecture literature presents indexing difficulties due to the absence of a recognized controlled vocabulary. A recent investigation showed a number of independent partial efforts targeted to local needs. The Art and Architecture Thesaurus (AAT) group is building on the experience of others to create a unified, hierarchical thesaurus for these fields. Although the thesaurus itself will be in machine "readable form, the real value of automation will be the ability to search hierarchica ...

10   A muscle model for animation three-dimensional facial expression
Keith Waters
August 1987 **ACM SIGGRAPH Computer Graphics , Proceedings of the 14th annual conference on Computer graphics and interactive techniques SIGGRAPH '87**, Volume 21 Issue 4
Publisher: ACM Press
Full text available: pdf(995.74 KB)   Additional Information: full citation, abstract, references, citings, index terms

The development of a parameterized facial muscle process, that incorporates the use of a model to create realistic facial animation is described.Existing methods of facial parameterization have the inherent problem of hard-wiring performable actions. The development of a muscle process that is controllable by a limited number of parameters and is non-specific to facial topology allows a richer vocabulary and a more general approach to the modelling of the primary facial expressions.A brief discu ...

11   Second language acquisition and CS1
Anne Gates Applin
February 2001 **ACM SIGCSE Bulletin , Proceedings of the thirty-second SIGCSE technical symposium on Computer Science Education SIGCSE '01**, Volume 33 Issue 1

Publisher: ACM Press

Full text available: pdf(431.39 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper presents an empirical study of the relative effectiveness of two teaching methods used in CS1 classrooms. While the teaching methods are nothing new, the results of the study are an important contribution to the body of computer science education literature. The research design should also be of interest in that it demonstrates how statistical significance can be achieved with a relatively small sample by using the naturally occurring groups that we have as course sections.The teachin ...

12 Automatic indexing and Government-Binding Theory
Robert J. Kuhns
August 1990 **Proceedings of the 13th conference on Computational linguistics - Volume 3**
Publisher: Association for Computational Linguistics
Full text available: pdf(280.65 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

This project note describes a system that receives, parses, indexes, and routes news reports. The core of this automatic indexer is a parser based on Government-Binding Theory which derives thematic and binding relationships of arguments of the sentences of stories. These syntactic structures are interpreted by a semantic processor which is linked to conceptual representations of terms from a controlled indexing vocabulary. As a result, the system is capable of indexing news with respect to a la ...

13 Machine translation: Investigating the possibility of a microprocessor-based machine translation system
Harold L. Somers
February 1983 **Proceedings of the first conference on Applied natural language processing**
Publisher: Association for Computational Linguistics
Full text available: pdf(550.13 KB)
Publisher Site   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

This paper describes an on-going research project being carried out by staff and students at the Centre for Computational Linguistics to examine the feasibility of Machine Translation (MT) in a microprocessor environment. The system incorporates as far as possible features of large-scale MT systems that have proved desirable or effective: it is multilingual, algorithms and data are strictly separated, and the system is highly modular. Problems of terminological polysemy and syntactic complexity ...

14 Large-scale controlled vocabulary indexing for named entities
Mark Wasson
April 2000 **Proceedings of the sixth conference on Applied natural language processing**
Publisher: Morgan Kaufmann Publishers Inc.
Full text available: pdf(530.63 KB)
Publisher Site   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>

A large-scale controlled vocabulary indexing system is described. The system currently covers almost 70, 000 named entity topics, and applies to documents from thousands of news publications. Topic definitions are built through substantially automated knowledge engineering.

15 Using Kohonen maps to determine document similarity
Jennifer Farkas

October 1994 **Proceedings of the 1994 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(575.72 KB)   Additional Information: full citation, abstract, references, index terms

In this paper we present some experimental results on the classification of natural language documents using Kohonen's self-organizing-map neural network paradigm. We discuss, in particular, how the classification accuracy can be improved if the standard keyword representation of documents is enhanced by including specific weights, thesaurally-defined relations among keywords, and additional synonyms for keywords. We sketch the main features of a prototype of an automatic document classification ...

16 Retrieval test evaluation of a rule based automatic indexing (AIR/PHYS)
N. Fuhr, G. E. Knorz
July 1984 **Proceedings of the 7th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: British Computer Society
Full text available: pdf(1.06 MB)   Additional Information: full citation, abstract, references

The automatic indexing system AIR/PHYS and its evaluation by means of a retrieval test with 309 requests and 15,000 documents is described. First, the underlying conception of a rule based approach is given which is suited to the task of a controlled-vocabulary indexing of even large subject fields. Preconditions, performance and results of the retrieval test are described, including first results of retrieval runs with weighted automatic indexing.

17 Session 7: Visual and spatial communication and task organization using the visual knowledge builder
Frank Shipman, Robert Airhart, Haowei Hsieh, Preetam Maloor, J. Michael Moore, Divya Shah
September 2001 **Proceedings of the 2001 International ACM SIGGROUP Conference on Supporting Group Work**
Publisher: ACM Press
Full text available: pdf(1.21 MB)   Additional Information: full citation, abstract, references, citings, index terms

When people share a workspace, they naturally create visual structures which organize resources, communicate interpretations, and coordinate activities. To support this mode of communication and coordination we have built the Visual Knowledge Builder (VKB.) VKB supports the incremental visual interpretation of information. Through the emergence and evolution of visual languages, communication between VKB users sharing a workspace grows over time. VKB has been used for two years in note taking, w ...

Keywords: collaborative writing, emergent structure, information workspace, magnetic poetry, navigable history, spatial parser, visual communication, visual language

18 JurisConsulto: retrieval in jurisprudencial text bases using juridical terminology
Tânia C. D'Agostini Bueno, Christiane Gresse von Wangenheim, Eduardo da Silva Mattos, Hugo Cesar Hoeschl, Ricardo M. Barcia
June 1999 **Proceedings of the 7th international conference on Artificial intelligence and law**
Publisher: ACM Press
Full text available: pdf(982.29 KB)   Additional Information: full citation, abstract, references, citings, index terms

In the legal domain, jurisprudence has an important role as a juridical source; its decisions support the application of the Law to a concrete case. The problem is that Brazilian Courts produce an enormous amount of decisions every year, turning these text sources larger

every time and forcing juridical professionals to spend more time in the search for a relevant decision. Sophisticated AI techniques are needed to minimize searches time and improves the quality and appropriateness of the r ...

19 In search of heuristics for keyword detection (abstract only): my source of discontent

Amos O. Olagunju
February 1987 **Proceedings of the 15th annual conference on Computer Science**
Publisher: ACM Press
Full text available: pdf(136.74 KB)   Additional Information: full citation, abstract, references, index terms

The question of how to index documents is a central problem in document retrieval. The indexing problem can be stated as follows. There exists a large document collection, together with population of retrieval system customers, each of whom wants information that he thinks might be supplied by documents in the collection. How should the documents in the collection be identified ("indexed," "cataloged," etc.) so that the collection can be searched to the maximal colle ...

20 A fuzzy approach to faceted classification and retrieval of reusable software components

Francesco Baruchelli, Giancarlo Succi
June 1997 **ACM SIGAPP Applied Computing Review,** Volume 5 Issue 1
Publisher: ACM Press
Full text available: pdf(346.24 KB)   Additional Information: full citation, abstract, index terms

Software reuse can be very useful in increasing the productivity and the quality level of a company, but appropriate classification and retrieval tools have to be provided in order to exploit its pros. The classic classification and retrieval methods based upon a controlled, fixed vocabulary are not very flexible and can be unsatisfactory in many cases, especially when the specification are not fully defined. An improvement in this sense can be obtained applying some simple fuzzy concepts to the ...

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